

Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1. (Currently Amended) In a receiver that recovers a digital vestigial sideband (VSB) signal, a method for detecting the phase of the recovered digital signal comprising:

forming from the recovered digital VSB signal a first data stream and a second data stream comprising a Hilbert Transform pair;

generating a third data stream that represents tentative decisions from the first data stream;

comparing the first and third data streams to generate a symbol error signal;
combining the symbol error signal and the second data stream to form a phase error signal; and

coupling the phase error signal to a voltage controlled oscillator (VCO) VCO to reduce the phase error signal.

2. (Currently Amended) The method of claim 1, ~~in which~~ wherein the symbol error signal is delayed before combination with the second data stream.

3 . (Currently Amended) The method of claim 2, additionally further comprising equalizing the third data stream and combining the equalized third data stream with the first data stream ~~prior to generating the third data stream.~~

4. (Currently Amended) The method of claim 1, ~~additionally further~~ comprising equalizing the third data stream and combining the equalized third data stream with the first data stream ~~prior to generating the third data stream.~~

5. (Currently Amended) The method of claim 4, ~~in which wherein~~ the second data stream is delayed by a given amount during formation of the first and second data streams and the ~~the~~ symbol error signal is delayed by the given amount before ~~comparison combining~~ with the second data stream.